

Buloke

Malting Barley

VARIETY SUMMARY

- Accredited Malt variety in NSW, VIC, SA and WA
- Early to midseason variety similar to Schooner.
- Yielding 5% -10% higher than Schooner, Sloop, SloopSA and SloopVic in low to medium rainfall areas.
- Straw strength is evaluated as average and moderately tall in height.
- Grain plumpness is intermediate between Schooner and Gairdner.
- Susceptible to CCN



BREEDING

Franklin/VB9104/ VB9104
Bred by David Moody, Senior Barley Breeder, Department of Primary Industries, Victoria, Horsham through the Malting Barley Quality Improvement Program (MBQIP).



MATURITY

Buloke is an early to midseason maturing variety. Buloke flowers at approximately the same time as Schooner and about 3-4 days later than SloopSA. Limited data suggests Buloke is a few days later flowering than Schooner in central NSW.



DISEASE RESISTANCE

Table 1. 2010 disease ratings for Buloke

	Scald	Spot Form Net Blotch	Net Form Net Blotch	Powdery Mildew	Leaf Rust	BYDV
NSW	MS	MS-S	MR	MR	S-VS	-
VIC	MS	MS-S	MR	MR	S	S
SA	MS	MS-S	MR	MR	S-VS	S
WA	MS	MS	MS	MR	S	MR-MS

Disease terms: R - Resistant, MR - Moderately Resistant, MS - Moderately Susceptible, S - Susceptible, VS - Very Susceptible



PLANT CHARACTERISTICS

Buloke is a moderately tall variety with good straw strength and good head retention. Early growth does not appear as vigorous compared to the Sloop varieties.



AREA OF ADAPTATION

Broadly adaptable, Buloke is best suited to the low – medium rainfall (325mm+) districts of southern Australia. Buloke is a high yielding alternative to Schooner, Sloop, SloopVic, SloopSA and Flagship in these areas.

Buloke has equalled and exceeded existing malting varieties in the low – medium rainfall areas of southern Australia.

Areas of adaptation include the low to medium rainfall zones of Western Australia, South Australia, Victoria, New South Wales and Tasmania.



GRAIN QUALITY

Ideal malt quality barley.

Grain plumpness of Buloke is similar to Schooner and superior to Gairdner.

Buloke is a variety that has high diastatic power and high fermentability, consequently it is most suitable for starch adjunct brewing. This style of brewing is common in Asian countries where starch (corn or rice) supplements malt in the brewing process. For brewers, Buloke will have similar performance to Baudin and Flagship.



AGRONOMIC GUIDELINES

A detailed Malt Barley Management guide is available from the AWB Seeds website: www.awbseeds.com.au

 YIELD**Table 1.** Long term yield performance (2000-09) in NSW

Variety	Nth East	Nth West	Sth East	Sth West
	% Gairdner			
Buloke	104	109	108	105
Baudin	100	105	104	101
Schooner	95	102	99	95
Flagship	101	105	101	98
Gairdner	100	100	100	100

Table 2. Long term yield performance (2000-09) in VIC (NVT 2010)

Variety	Mallee	Wimmera	Nth Central	Nth East
	% Schooner	% Gairdner		
Buloke	109	105	103	102
Sloop	101	95	95	94
Schooner	100	93	92	91
Flagship	104	99	95	95
Gairdner	100	100	100	100

Table 3. Long term yield performance (2000-09) in SA (SARDI 2010 Harvest Report)

Variety	Lower EP	Upper EP	Mallee	Yorke Pen	Mid Nth	South East
	% Site mean					
Buloke	109	108	112	106	105	106
Sloop	100	101	103	97	99	100
Schooner	100	101	99	95	97	97
Flagship	104	105	111	102	101	104
Gairdner	99	101	105	101	101	102

Table 4. Long term yield performance (2003-09) in WA (DAFWA 2010 Sowing Guide)

Variety	Agz 1	Agz 2	Agz 3	Agz 4	Agz 5	Agz 6
	% Stirling					
Buloke	119	114	115	110	111	116
Baudin	109	104	103	99	107	105
Gairdner	109	104	107	96	107	110
Hamelin	106	102	102	102	101	103
Vlamingh	117	108	112	101	109	111

 PLANT BREEDER RIGHTS AND ROYALTIES

Buloke is protected by Plant Breeder's Rights (PBR); any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the Plant Breeder's Rights Act 1994.

Growers are allowed to retain seed from production of this variety for their own use as seed only. An End Point Royalty of \$2.20 per tonne (GST inclusive), which includes breeder royalties, applies to this variety.

ACKNOWLEDGEMENTS

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